



CFP2000 Result

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Bull

NovaScale R440 (Intel Xeon processor 5160, 3.00 GHz)

SPECfp2000 = 2646

SPECfp_base2000 = 2592

SPEC license #: 20 Tested by: Bull Test date: Nov-2006 Hardware Avail: Nov-2006 Software Avail: Nov-2006

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	43.9	3645	43.9	3645	
171.swim	3100	113	2739	113	2739	
172.mgrid	1800	102	1760	102	1760	
173.applu	2100	105	2005	105	2005	
177.mesa	1400	51.9	2696	51.9	2696	
178.galgel	2900	41.3	7020	41.3	7020	
179.art	2600	25.1	10348	25.1	10348	
183.earthquake	1300	59.6	2183	44.7	2911	
187.facerec	1900	73.2	2594	73.2	2594	
188.amp	2200	103	2140	103	2140	
189.lucas	2000	103	1946	103	1946	
191.fma3d	2100	105	1993	105	1993	
200.sixtrack	1100	92.2	1194	92.2	1194	
301.apsi	2600	163	1594	163	1594	

Hardware

CPU: Intel Xeon Processor 5160 (1332MHz bus)
CPU MHz: 3000
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 2 cores/chip
CPU(s) orderable: 1 to 2 chips
Parallel: No
Primary Cache: 32KB(I) + 32KB(D) on chip, per core
Secondary Cache: 4096KB(I+D) on chip per chip (shared)
L3 Cache: N/A
Other Cache: N/A
Memory: 8GB (8x1GB 533MHz ECC CL4 DDR2 FB-DIMM)
Disk Subsystem: 2x36GB SAS 15000 rpm
Other Hardware:

Software

Operating System: Windows Server 2003 Enterprise Edition (32 bits), Service Pack1
Compiler: Intel(R) C++ Compiler for 32-bit app., Version 9.1, - Build 20060927Z Package ID: W_CC_C_9.1.032
Intel(R) Fortran Compiler for 32-bit app., Version 9.1, - Build 20060927Z Package ID: W_FC_C_9.1.032
Microsoft Visual Studio .NET 2003 (for libraries)
MicroQuill SmartHeap Library 8.0 (shlW32M.lib)
File System: NTFS
System State: Default

Notes/Tuning Information

Portability flags:

178.galgel: -FI /F32000000

Feedback optimization:

+FDO: PASS1= -Qprof_gen PASS2= -Qprof_use

Baseline Tuning Flags:

for C programs:
-fast -Qansi_alias +FDO
for Fortran programs:
-fast -Qansi_alias +FDO

Peak Tuning Flags:

168.wupwise: basepeak=yes
171.swim: basepeak=yes
172.mgrid: basepeak=yes
173.applu: basepeak=yes



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Notes/Tuning Information (Continued)

```
177.mesa:      basepeak=yes
178.galgel:    basepeak=yes
179.art:       basepeak=yes
183.quake:     -fast -Oa -Qrcd +FDO ONESTEP=yes shlW32M.lib
187.facerec:   basepeak=yes
188.ammmp:     basepeak=yes
189.lucas:     basepeak=yes
191.fma3d:     basepeak=yes
200.sixtrack:  basepeak=yes
301.apsi:      basepeak=yes
```

Other Configuration Notes

/NUMPROC=1 flag was added to boot.ini to invoke uniprocessor environment

For information about Bull please see:
<http://www.bull.com>